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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO.

09/158.099

09/22/98

MIWA

K

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022850 IM62/1219
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ART UNIT PAPER NUMBER

1722

DATE MAILED:

12/19/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trad marks

Office Action Summary

Application No. 09/158,099

Applicant(s)

Miwa et al

Examiner

Kuang Lin

Group Art Unit 1722



X Responsive to communication(s) filed on Nov 14, 2000	
X This action is FINAL .	
Since this application is in condition for allowance except for in accordance with the practice under Ex parte Quayle, 193	or formal matters, prosecution as to the merits is closed 35 C.D. 11; 453 O.G. 213.
A shortened statutory period for response to this action is set to is longer, from the mailing date of this communication. Failure application to become abandoned. (35 U.S.C. § 133). Extens 37 CFR 1.136(a).	to respond within the period for response will cause the
Disposition of Claims	
	is/are pending in the application.
Of the above, claim(s)	is/are withdrawn from consideration.
☐ Claim(s)	
☐ Claim(s)	
☐ Claims	are subject to restriction of election requirement.
Application Papers	
☐ See the attached Notice of Draftsperson's Patent Drawin	
☐ The drawing(s) filed on is/are object	cted to by the Examiner.
☐ The proposed drawing correction, filed on	is 🕒 approved 🗔 disapproved.
\square The specification is objected to by the Examiner.	
$\hfill\Box$ The oath or declaration is objected to by the Examiner.	
Priority under 35 U.S.C. § 119	
☐ Acknowledgement is made of a claim for foreign priority	r under 35 U.S.C. § 119(a)-(d).
☐ All ☐ Some* ☐ None of the CERTIFIED copies of	of the priority documents have been
received.	
☐ received in Application No. (Series Code/Serial Nu	ımber)
\square received in this national stage application from the	a International Bureau (PCT Rule 17.2(a)).
*Certified copies not received:	
☐ Acknowledgement is made of a claim for domestic prior	ity under 35 U.S.C. § 119(e).
Attachment(s)	
□ Notice of References Cited, PTO-892	
☐ Information Disclosure Statement(s), PTO-1449, Paper N	No(s)
☐ Interview Summary, PTO-413	
☐ Notice of Draftsperson's Patent Drawing Review, PTO-9	148
□ Notice of Informal Patent Application, PTO-152	
SEE OFFICE ACTION ON	THE FOLLOWING PAGES

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1. The specification is objection in that in page 11, "Brief Description of the Drawings" is redundant in view of amendment to page 7, lines 14-15 of the specification.

2. Claims 11-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 11, last three lines, it is not clear what "the other metals" are referred to. In claim 14, the meaning of "refining the other metals to shift the other metals to a periphery of the molten metal ----" is not clear.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 11, and 14 insofar definite are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Radjai et al.
- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103© and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 12 and 13 insofar as definite are rejected under 35 U.S.C. 103(a) as being unpatentable over Radjai et al.

Radjai et al substantially show the invention as claimed except the intermetallic compound or addition of second particles into the molten metal. However, it would have been obvious to used the refining technique of Radjai for casting any alloy system which include an intermetallic compound. It would also have been obvious to add second particles into the molten metal should a composite article is designated. It is apparent to those of ordinary skill in the casting art that refining technique of Radjai et al will crush any particle which is suspended in the molten metal during solidification process.

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

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MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing date

of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Dr. Kuang Lin whose telephone number is (703) 308-2322. The examiner

can normally be reached on week day from 9:30 am to 6:00 pm.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the Group receptionist whose telephone number is (703) 308-0651.

Group Facsimile No.: (703) 305-7718 (for any document other than the amendment after

final office action), or

(703) 305-3599 (for the amendment after final office action only).

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